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10/072,143	02/06/2002	Mitsuaki Ooyama	2933AS-5	1436

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EXAMINER

LAM, THANH

ART UNIT

PAPER NUMBER

2834

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Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.  
**10/072,143**

Applicant(s)  
**Mitsuaki**

Examiner  
**Thanh Lam**

Art Unit  
**2834**



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_\_.
- 2a) ☐ This action is **FINAL**.      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claims \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

### Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some\* c) ☒ None of:  
1. ☒ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\*See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)      4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)      5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s). \_\_\_\_\_      6) ☐ Other:

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## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mizutani et al. in view of Fushiya et al.

Mizutani et al. disclose a motor comprising: a motor housing; an armature having a rotating shaft and a commutator, the armature being rotatably supported in the motor housing; brushes brought into friction contact with the commutator; brush holders for holding the brushes respectively; a base plate to which the brush holders are attached; the base plate having a first side and a second side, the second side being opposite to the first side; and a plurality of electric parts to be mounted on the base plate; the electric parts being allocated to the first side.

Mizutani et al. do not disclose electric parts being allocated to the the second side of the base plate.

Fushiya et al. disclose the base plate (17) having a first side and a second side, the second side being opposite to the first side; and a plurality of electric parts (13,20,23) to be mounted on the base plate; the electric parts being allocated to the first side.

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the plate as taught by Mizutani et al. to commodate the the plate of Fushiya et al. in order to reduce the size the the motor.

Regarding claim 2, the proposal in combination of Mizutani et al. and Fushiya et al. disclose the plurality of electric parts have longitudinal axes respectively and are arranged such that these axes are parallel to the axis of the rotating shaft.

Regarding claim 3, the proposal in combination of Mizutani et al. and Fushiya et al. disclose at least one of the electric parts arranged on the first side of the base plate is oriented such that the longitudinal axis thereof is parallel to the axis of the rotating shaft, whereas at least one of the electric parts arranged on the second side of the base plate is oriented such that the longitudinal axis thereof is parallel to the base plate.

Regarding claim 4, the proposal in combination of Mizutani et al. and Fushiya et al. disclose the base plate is fixed to the motor housing on the central line thereof intersecting perpendicularly to the axis of the rotating shaft, the electric parts being arranged to form symmetry with respect to the central line.

Regarding claim 5, the proposal in combination of Mizutani et al. and Fushiya et al. disclose the electric parts include choke coils and a circuit breaker.

Regarding claim 6, the proposal in combination of Mizutani et al. and Fushiya et al. disclose the circuit breaker has a terminal plate for securing electrical connection, the terminal

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plate being located adjacent to one of the choke coils and having a heat receiving portion for receiving heat generated in the choke coil.

Regarding claim 7, the proposal in combination of Mizutani et al. and Fushiya et al. disclose a motor comprising: a motor housing; an armature having a rotating shaft and a commutator, the armature being rotatably supported in the motor housing; brushes brought into friction contact with the commutator; brush holders for holding the brushes respectively; a base plate to which the brush holders are attached; a plurality of electric parts to be mounted on the base plate, the electric parts having longitudinal axes respectively; and a plurality of part holders for holding the electric parts respectively, the part holders being attached to the base plate with the electric parts being positioned such that the longitudinal axes thereof extend parallel to the axis of the rotating shaft.

Regarding claim 8, the proposal in combination of Mizutani et al. and Fushiya et al. disclose the part holders are removably attached to the base plate.

Regarding claim 9, the proposal in combination of Mizutani et al. and Fushiya et al. disclose the base plate is fixed to the motor housing on the central line thereof intersecting perpendicularly to the axis of the rotating shaft, the electric parts being arranged to form substantially symmetry with respect to the central line of the base plate.

Regarding claim 10, the proposal in combination of Mizutani et al. and Fushiya et al. disclose the plurality of part holders comprise a first part holder and a second part holder.

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Regarding claim 11, the proposal in combination of Mizutani et al. and Fushiya et al. disclose the electric parts comprise three choke coils and a single circuit breaker, the first part holder holding two of the three choke coils, whereas the second part holder holding one of the three choke coils and the single circuit breaker.

Regarding claim 12, the proposal in combination of Mizutani et al. and Fushiya et al. disclose the base plate has a first side and a second side, the first part holder and the second part holder being located on the first side and on the second side of the base plate, respectively.

Regarding claim 13, the proposal in combination of Mizutani et al. and Fushiya et al. disclose each part holder has a holding piece for holding a joint of the electric part held in the holder.

Regarding claim 14, the proposal in combination of Mizutani et al. and Fushiya et al. disclose the motor housing comprises a yoke housing and a gear housing, the yoke housing supporting rotatably the armature, whereas the gear housing containing a decelerating mechanism for decelerating revolution of the rotating shaft and outputting the decelerated revolution.

Regarding claim 15, the proposal in combination of Mizutani et al. and Fushiya et al. disclose a motor comprising: a motor housing containing a yoke housing and a gear housing; an armature having a rotating shaft and a commutator, the armature being rotatably supported in the yoke housing; a decelerating mechanism for decelerating revolution of the rotating shaft and outputting the decelerated revolution, the mechanism being located in the gear housing; a

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baseplate interposed between the yoke housing and the gear housing; brushes brought into friction contact with the commutator; brush holders for holding the brushes respectively, which are attached to the base plate; and a plurality of electric parts to be mounted on the base plate; the gear housing having a mounting portion for mounting the motor to other apparatuses and a receiving portion for receiving at least a part of the electric part, the receiving portion being located between the rotating shaft and the mounting portion.

Regarding claim 16, the proposal in combination of Mizutani et al. and Fushiya et al. disclose the receiving portion is located within the profile of the yoke housing.

Regarding claim 17, the proposal in combination of Mizutani et al. and Fushiya et al. disclose the decelerating mechanism has an output shaft extended orthogonal to the rotating shaft; the receiving portion being located between the output shaft and the yoke housing along the axis of the rotating shaft

Regarding claim 18, the proposal in combination of Mizutani et al. and Fushiya et al. disclose a motor comprising: a motor housing; an armature having a rotating shaft and a commutator, the armature being rotatably supported in the motor housing; brushes brought into friction contact with the commutator; brush holders for holding the brushes respectively; a base plate to which the brush holders are attached; the base plate having a first side and a second side; and a plurality of electric parts to be mounted on the base plate, the electric parts being allocated to the first side and the second side of the base plate, at least one of the electric parts allocated to

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the first side and at least one of the electric parts allocated to the second side extend in opposite directions with respect to each other.

Regarding claim 19, the proposal in combination of Mizutani et al. and Fushiya et al. disclose a first part holder and a second part holder, the first part holder holding at least one of the electric parts allocated to the first side, whereas the second part holder holding at least one of the electric parts allocated to the second side.

Regarding claim 20, the proposal in combination of Mizutani et al. and Fushiya et al. disclose the electric parts held by the first part holder comprise a pair of choke coils, whereas the electric parts held by the second part holder comprise a choke coil and a circuit breaker.

Regarding claim 21, the proposal in combination of Mizutani et al. and Fushiya et al. disclose the electric parts have axes extending parallel to the axis of the rotating shaft, respectively.

Regarding claim 22, the proposal in combination of Mizutani et al. and Fushiya et al. disclose each part holder is provided with a holding piece for holding a joint of the electric part held in the holder.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Lam whose telephone number is (703) 308-7626. The fax phone number for this Group is (703) 305-3432.



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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0656.

A handwritten signature in black ink, appearing to read 'Thanh Lam', with a stylized, cursive script.

Thanh Lam

Patent Examiner